

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P522885

Luminaire Tested: **GALN-SA8C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51740 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

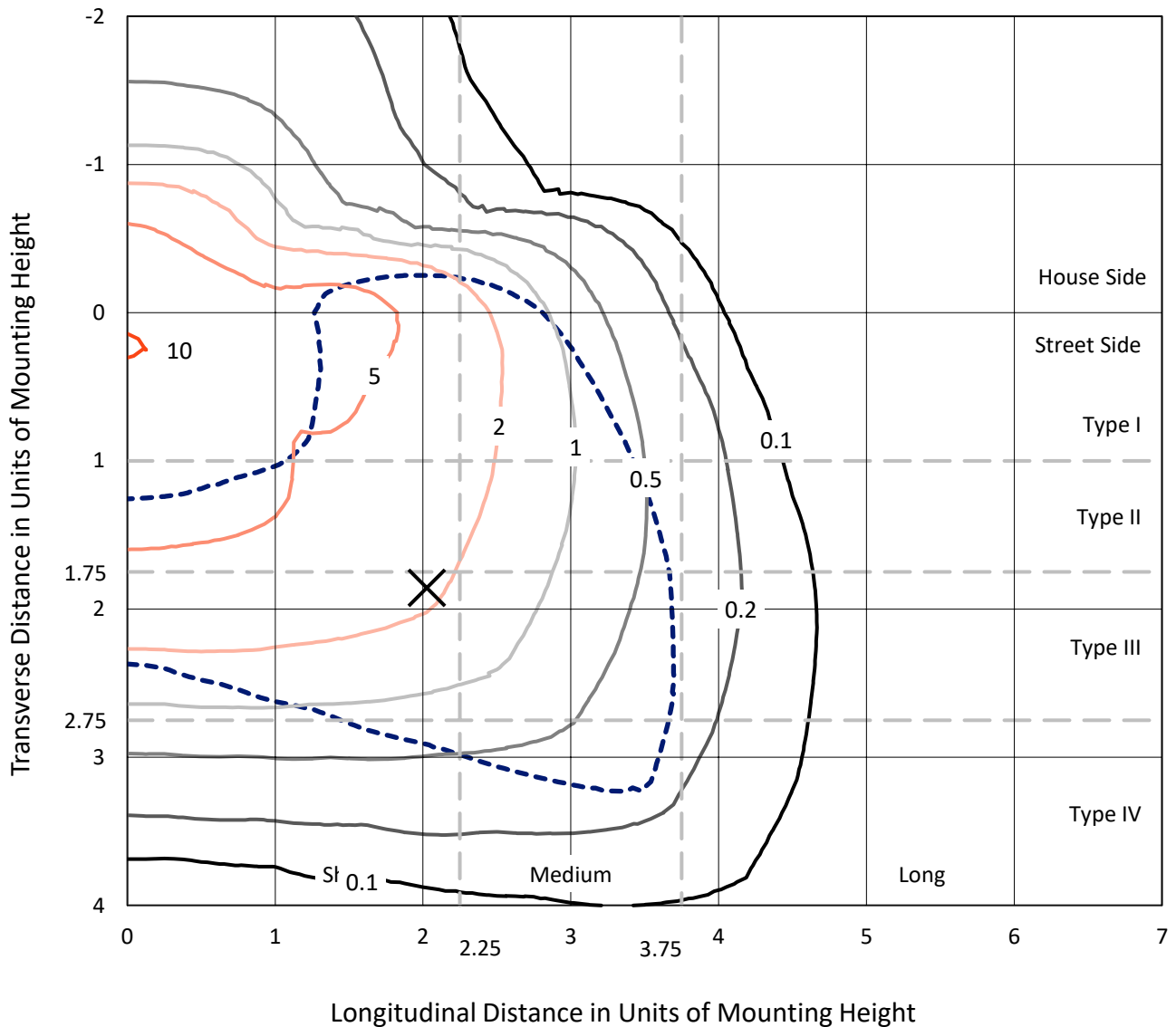
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

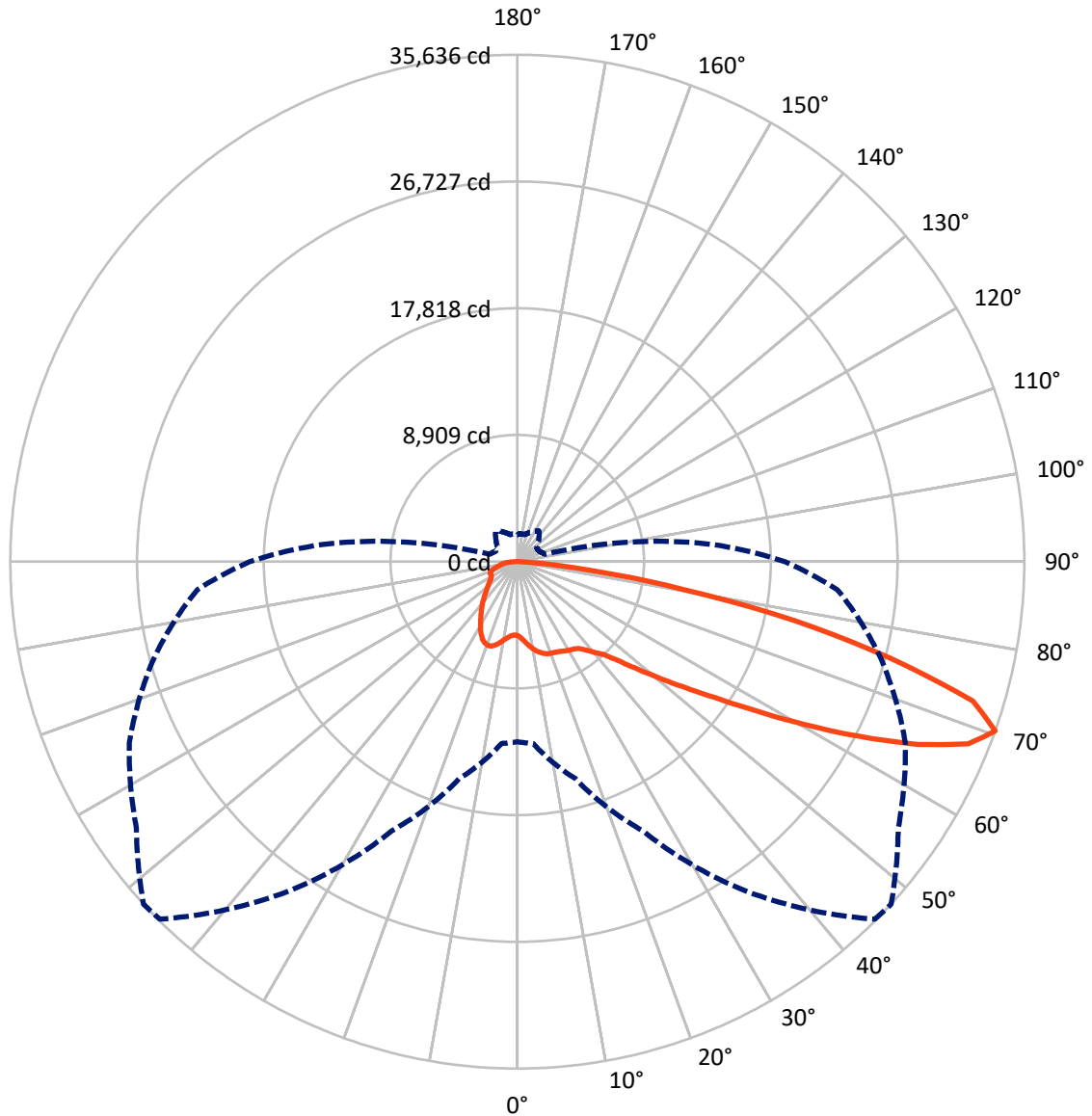
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11714.9	0.0	11714.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40025.1	0.0	40025.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	51740.0	0.0	51740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.4	1.0
10°-20°	1789.9	3.5
20°-30°	2976.6	5.8
30°-40°	4218.8	8.2
40°-50°	6227.9	12.0
50°-60°	10787.0	20.8
60°-70°	15236.9	29.4
70°-80°	8759.0	16.9
80°-90°	1208.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51740.0	100.0
0°-180°	51740.0	100.0

Coefficient of Utilization



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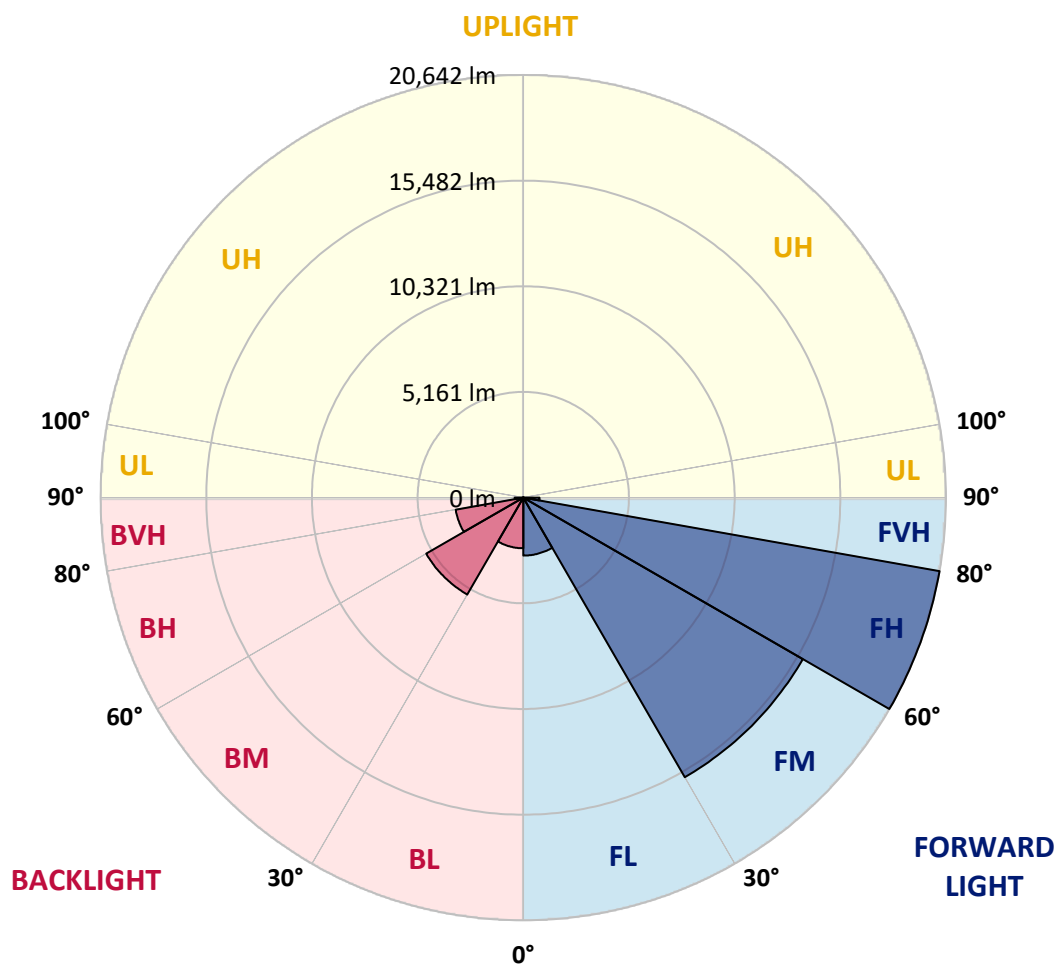
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2829.3	5.5			
FM	(30°-60°)	15764.2	30.5			
FH	(60°-80°)	20642.1	39.9			G5
FVH	(80°-90°)	789.4	1.5			G5
BL	(0°-30°)	2472.5	4.8	B3/2500		
BM	(30°-60°)	5469.5	10.6	B4/8500		
BH	(60°-80°)	3353.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	419.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1
2.5°	5529.1	5509.7	5506.9	5465.4	5443.3	5401.7	5385.1	5346.4	5299.3	5252.2	5207.9
5°	5963.8	5963.8	5944.4	5886.2	5794.9	5700.7	5659.2	5584.5	5451.6	5343.6	5252.2
7.5°	6409.5	6415.1	6376.3	6290.5	6160.3	6008.1	5969.3	5858.6	5670.3	5512.5	5376.8
10°	6794.4	6794.4	6741.8	6625.5	6462.1	6296.0	6257.3	6132.7	5922.2	5725.7	5548.5
12.5°	7087.9	7087.9	7018.6	6866.4	6689.2	6539.7	6495.4	6376.3	6179.7	5961.0	5736.7
15°	7278.9	7265.1	7187.5	7015.9	6844.2	6714.1	6683.6	6584.0	6404.0	6182.5	5930.5
17.5°	7287.2	7281.7	7206.9	7062.9	6913.4	6824.8	6805.5	6739.0	6597.8	6387.4	6121.6
20°	7126.6	7137.7	7087.9	6985.4	6913.4	6874.7	6866.4	6844.2	6744.5	6548.0	6282.2
22.5°	6955.0	6974.3	6927.3	6871.9	6866.4	6905.1	6910.7	6916.2	6852.5	6661.5	6417.8
25°	6913.4	6927.3	6880.2	6830.4	6860.8	6963.3	6985.4	7007.6	6957.7	6797.1	6578.4
27.5°	7123.9	7112.8	7021.4	6913.4	6932.8	7071.2	7101.7	7126.6	7101.7	6963.3	6777.8
30°	7719.1	7683.1	7500.4	7184.8	7085.1	7182.0	7212.5	7281.7	7281.7	7179.2	6993.7
32.5°	8715.9	8646.6	8311.6	7691.4	7345.4	7287.2	7317.7	7431.2	7489.3	7409.0	7206.9
35°	9925.8	9853.8	9374.8	8541.4	7821.6	7497.6	7489.3	7616.7	7771.7	7591.8	7328.7
37.5°	11141.2	11066.5	10490.6	9554.8	8516.5	7940.6	7890.8	7935.1	8001.5	7672.1	7497.6
40°	12356.7	12268.1	11764.2	10687.2	9366.5	8527.6	8397.5	8198.1	8170.4	7935.1	7824.3
42.5°	13561.1	13480.8	13226.1	11958.0	10385.4	9100.7	8901.4	8558.0	8663.2	8522.0	8425.1
45°	14776.5	14782.1	14510.7	13383.9	11614.7	10158.3	9889.8	9352.7	9601.8	9549.2	9604.6
47.5°	15853.6	15839.7	15742.8	14768.2	13140.2	11520.5	11174.5	10551.5	10977.9	11171.7	11595.3
50°	16897.4	16889.0	16894.6	16338.1	14912.2	13140.2	12758.2	12104.7	13065.5	13738.3	14496.9
52.5°	18392.4	18439.5	18104.5	17957.8	17066.2	15053.4	14632.6	13957.0	15532.4	16592.8	18074.0
55°	19893.1	19854.3	19591.3	19743.6	19320.0	17318.2	16878.0	16340.8	18278.9	19439.0	21665.0
57.5°	20776.3	20790.1	21058.7	21803.5	22102.5	20142.3	19743.6	19328.3	21366.0	22188.3	24860.1
60°	21570.9	21634.6	22407.1	23813.6	24624.8	23611.4	23257.0	22852.8	24198.4	24525.1	27634.4
62.5°	21820.1	22016.7	23365.0	25469.2	27083.4	27526.4	27086.2	26194.6	26895.1	26767.8	29514.3
65°	20576.9	20845.5	23262.6	26089.4	29279.0	31242.0	30962.3	29306.6	29193.1	28426.2	29821.6
67.5°	17304.3	17572.9	20676.6	24788.1	30187.1	34459.2	34179.6	31577.0	30588.6	28581.2	27495.9
70°	12661.2	12830.1	15798.2	20870.4	28362.5	35539.0	35635.9	32684.5	30090.2	26474.3	22575.9
72.5°	7295.5	7669.3	9748.6	14682.4	23171.2	32809.0	33481.8	30380.9	26939.4	22085.9	15784.3
75°	3136.9	3145.2	4507.4	8098.4	15693.0	26371.8	27022.5	25184.1	21155.6	15272.1	8427.9
77.5°	1492.3	1520.0	1982.4	3615.9	8638.3	18220.8	19976.1	17791.6	13530.6	7337.0	3184.0
80°	969.0	988.4	1212.7	1794.1	4236.1	10565.3	11789.1	10263.6	5969.3	2622.0	1373.3
82.5°	587.0	592.5	811.2	1096.4	2331.2	4784.3	5639.8	4454.8	2547.2	1569.9	808.5
85°	357.2	359.9	492.8	678.3	1414.8	1652.9	1697.2	1683.4	1495.1	1027.2	431.9
87.5°	171.7	177.2	254.7	321.2	556.5	512.2	484.5	562.0	706.0	553.7	185.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1	5194.1
2.5°	5188.5	5180.2	5160.8	5152.5	5147.0	5149.8	5147.0	5147.0	5149.8	5149.8	5149.8
5°	5213.5	5199.6	5169.2	5169.2	5185.8	5224.5	5260.5	5288.2	5318.7	5315.9	5315.9
7.5°	5321.4	5296.5	5260.5	5271.6	5313.1	5374.0	5437.7	5498.6	5559.5	5565.1	5562.3
10°	5479.2	5454.3	5415.6	5429.4	5495.9	5587.2	5667.5	5756.1	5822.6	5841.9	5836.4
12.5°	5659.2	5609.4	5576.2	5614.9	5720.1	5841.9	5919.5	5985.9	6033.0	6060.7	6049.6
15°	5841.9	5794.9	5756.1	5836.4	5963.8	6077.3	6116.0	6127.1	6135.4	6163.1	6157.6
17.5°	6019.1	5955.5	5941.6	6046.8	6168.7	6218.5	6196.3	6149.3	6113.3	6135.4	6132.7
20°	6177.0	6127.1	6121.6	6226.8	6273.9	6226.8	6132.7	6049.6	5985.9	5991.5	5988.7
22.5°	6326.5	6287.7	6293.2	6337.5	6262.8	6102.2	5947.2	5833.6	5764.4	5778.3	5786.6
25°	6492.6	6453.8	6467.7	6395.7	6149.3	5869.6	5645.4	5548.5	5520.8	5548.5	5567.8
27.5°	6708.6	6683.6	6675.3	6398.5	5947.2	5526.3	5271.6	5235.6	5260.5	5321.4	5351.9
30°	6941.1	6941.1	6896.8	6351.4	5670.3	5113.8	4892.3	4897.8	4983.7	5069.5	5099.9
32.5°	7165.4	7212.5	7074.0	6224.0	5313.1	4712.3	4543.4	4549.0	4623.7	4728.9	4756.6
35°	7350.9	7486.6	7226.3	5991.5	4892.3	4374.5	4247.2	4172.4	4175.2	4255.5	4277.6
37.5°	7605.6	7857.6	7314.9	5645.4	4443.8	4086.6	3942.6	3812.5	3726.7	3693.4	3693.4
40°	8048.6	8419.6	7337.0	5133.2	4020.1	3812.5	3607.6	3452.6	3286.4	3136.9	3109.2
42.5°	8798.9	9266.8	7292.7	4543.4	3638.1	3510.7	3311.4	3120.3	2890.5	2680.1	2663.5
45°	10127.9	10368.8	7173.7	3931.5	3297.5	3220.0	3026.2	2818.5	2574.9	2386.6	2372.8
47.5°	12257.0	11916.5	7015.9	3388.9	2987.4	2965.3	2815.8	2574.9	2331.2	2201.1	2187.3
50°	15366.3	14352.9	6993.7	2995.7	2738.2	2749.3	2627.5	2406.0	2192.8	2084.8	2068.2
52.5°	19109.5	17296.0	7140.5	2718.9	2519.5	2561.0	2500.1	2295.2	2107.0	2015.6	1999.0
55°	22742.1	19942.9	7229.1	2502.9	2314.6	2392.2	2400.5	2228.8	2057.1	1965.8	1954.7
57.5°	25690.7	21936.4	6835.9	2306.3	2137.4	2256.5	2317.4	2190.0	2032.2	1963.0	1951.9
60°	27742.3	22877.7	5717.4	2131.9	2007.3	2148.5	2286.9	2192.8	2093.1	2101.4	2107.0
62.5°	28395.7	22459.7	4288.7	2001.8	1918.7	2112.5	2336.8	2306.3	2203.9	2267.6	2278.6
65°	27313.2	20732.0	3109.2	1899.3	1841.2	2137.4	2486.3	2389.4	2165.1	2212.2	2212.2
67.5°	23689.0	17860.9	2419.8	1805.2	1752.6	2184.5	2635.8	2381.1	2073.8	2129.1	2079.3
70°	18791.1	13815.8	2015.6	1700.0	1658.4	2115.3	2649.6	2295.2	1965.8	1976.8	1882.7
72.5°	12470.2	9084.1	1733.2	1600.3	1514.5	1902.1	2536.1	2184.5	1860.6	1796.9	1702.7
75°	6110.5	4529.6	1511.7	1475.7	1326.2	1655.7	2381.1	2079.3	1747.0	1647.4	1594.8
77.5°	2367.2	1927.0	1290.2	1317.9	1154.5	1459.1	2176.2	1929.8	1597.5	1461.9	1420.3
80°	1149.0	1093.6	1057.6	1099.2	949.7	1243.1	1987.9	1799.7	1459.1	1309.6	1248.7
82.5°	714.3	675.6	811.2	855.5	730.9	1135.2	1885.5	1688.9	1284.7	1085.3	1035.5
85°	362.7	387.6	542.7	584.2	523.3	902.6	1553.2	1268.1	927.5	769.7	775.2
87.5°	138.4	185.5	285.2	307.3	279.6	476.2	855.5	739.2	595.3	404.2	373.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)